

# INDEX TO VOLUME XXVIII

## GENERAL INDEX

The following contractions are used in regard to the indexed material: (C)—Correspondence; (E)—Editorial; (Ret)—Retrospect; (Ab)—Abstracts; (Ob)—Obituary.

### A

- Abdominal wall, myalgia of, C. Hunter 157.  
 Abortion, therapeutic, in Addison's disease, question of (Ab) 107.  
 Acid, hydrochloric, and ferments, pernicious anæmias with return of, after treatment (Ab) 571.  
 Adamantine epithelioma (Ab) 682.  
 Addison's disease, question of therapeutic abortion in (Ab) 107.  
 " " and its treatment with cortical extract (Ab) 107.  
 Adenocarcinoma, small alveolar large-cell (Langhans), of thyroid gland; case, E. M. Eberts 650.  
 " of vagina (Ab) 104.  
 Adrenal cortex insufficiency, temporary, hyperemesis gravidarum treated as, W. N. Kemp 389.  
 Adrenaline, effects on intraocular pressure and its clinical significance (Ab) 104.  
 Alberta hospitals state their views on health insurance (Ab) 325.  
 Albuminuria, functional, H. C. Jamieson and J. W. Scott 169.  
 Alcohol, I. M. Rabinowitch 587.  
 Aleukæmic myelosis with osteosclerosis (Ab) 682.  
 Alkalosis in alkaline treatment of peptic ulcers (Ab) 332.  
 Aluminium cooking utensils, prejudice against (E) 425.  
 Alveolar, small, large-cell adenocarcinoma (Langhans) of thyroid gland; case, E. M. Eberts 650.  
 Amblyopia ex anopsia in adult life (Ab) 337.  
 American college of physicians in Montreal (E) 312.  
 Amyot, Lt.-Col. John Andrew, retirement of (E) 544.  
 Anæmia, pernicious, gastric secretion of (Ab) 578.  
 " " with return of hydrochloric acid and ferments after treatment (Ab) 571.  
 " " treatment of; effect of single injection of concentrated gastric juice (Ab) 340.  
 " " " by intramuscular administration of liver extract, E. W. McHenry, E. S. Mills and R. F. Farquharson 123.  
 " " " by marmite (Ab) 455.  
 " treatment of, E. S. Mills 410.  
 Anæmias, megalocytic, of tropical and non-tropical countries (Ab) 101.  
 Anæsthesia, avertin, clinical experiences with, K. M. Heard 151.  
 " spinal, R. M. Tovell 404.  
 " " in children, C. I. Junkin 51.  
 Anæsthetic ether, present status regarding common impurities, W. B. Neff 627.  
 Angina pectoris in young people with rheumatic carditis, W. W. Eakin 13.  
 Animals, magnesium deficiency in (Ab) 687.  
 Antenatal radiology (Ab) 104.  
 Antimony poisoning from enamelled vessels (Ab) 568.  
 Antrum, maxillary, pin in; case, R. P. Wright and J. W. Gerrie 65.  
 Appendicitis, acute; survey of 340 cases (Ab) 683.  
 Appendix, pseudomyxoma peritonei originating in mucocele of, H. H. Pitts and E. A. Gee 266.  
 Arachnodactyly; case, W. J. Patterson 652.  
 Arborization, branch, and heart block (Ab) 218.

- Arsenic, metallic, changes in bone sarcoma after intravenous injection of colloidal solution of; case, A. C. Hendrick and E. F. Burton 192.  
 Arthritis, chronic; etiology and treatment (Ab) 448.  
 " gonorrhœal, complement fixation in, F. Green 289.  
 " rheumatoid, deliberate opening of bones as treatment for (E) 311.  
 Artificial fever. *See* Fever.  
 Aschheim-Zondek test for diagnosis of pregnancy, Friedman modification of, C. H. Best and E. W. McHenry 599.  
 Asselius, Gaspar, discoverer of the lacteals, H. B. Anderson 666.  
 Association notes. *See* page x.  
 Asthma and hay fever (Ret), T. G. Heaton 313.  
 " intractable, sustained artificial fever (Ab) 577.  
 " research council (Ab) 331.  
 Atresia, congenital, of the œsophagus; case, F. A. Macneil 422.  
 Autopsy without consent (Ab) 438.  
 Avertin anæsthesia, clinical experience with, K. M. Heard 151.  
 " in multiple dressings; effects on the liver, L. H. McKim and W. Bourne 149.

### B

- Babinski (E) 77.  
 Bacillus diphtheriæ, gravis and mitis (Ab) 339.  
 Backache, significance of, in genito-urinary disease, M. I. Seng 283.  
 Bacterial subacute endocarditis as complication of pregnancy (Ab) 452.  
 Bacteriology, epidemiology and treatment of puerperal sepsis (Ab) 573.  
 Bacterium granulosus, etiology of trachoma with reference to (Ab) 453.  
 Belcourt, O. Edmond (Ob) 341.  
 Bilateral cortical necrosis of kidneys (Ab) 332.  
 " spontaneous pneumothorax in an ambulatory patient; case, L. Macpherson 305.  
 Bile ducts, extra-hepatic, tumours of, exclusive of ampulla of Vater, C. W. McLaughlin 255.  
 Biliary ducts and gall bladder, benign papillomata of; case, C. K. P. Henry 300.  
 Billings, Frank (Ob) 201.  
 Biopsy, B. T. Simpson 62.  
 Bismuth in treatment of cardiovascular syphilis (Ab) 224.  
 Bladder, changes in wall of, secondary to prostatic obstruction (Ab) 333.  
 " neck obstructions, pathology of (Ab) 573.  
 " transurethral application of ultraviolet irradiation and ventilation to interior of, for relief of, tuberculosis and other infections of this organ (Ab) 685.  
 Blood plasma, significance of cholesterol content in diabetes mellitus, I. M. Rabinowitch 162.  
 " pressure, average dynamic, new criterion of cardiac efficiency, R. J. Lajoie 276.  
 " sugar values, true (E) 659.  
 " test for (Ab) 424.  
 " transfusion of, W. R. Esdale 57.  
 Blow, Thomas Henry (Ob) 227.  
 Bone disease, clinical application of recent work on (Ab) 449.

- Bone sarcoma, changes after intravenous injection of colloidal solution of metallic arsenic; case, A. C. Hendrick and E. F. Burton 192.
- " tumours. See Tumours.
- Book reviews. See page xi.
- Boucher, *Alexandre* (Ob) 578.
- Boy, modern, defects of (Ab) 569.
- Breast, irradiation therapy in cancer of, G. E. Pfahler 602.
- Breech-presentations and their delivery (Ab) 103.
- Bright's disease; clinical classification, H. C. Jamieson 614.
- British Columbia, Indian medicine in, G. E. Darby 433.
- " " relapsing fever in North America with report of outbreak, J. H. Palmer and D. J. M. Crawford 643.
- Brochu, *Michel-Delphis* (Ob) 688.
- Bronchi, carcinoma of, J. C. Meakins and J. W. MacLeod 268.
- Bronchoscopy, value of, in diagnosis and treatment of intrathoracic new growths (Ab) 332.
- Brown, *Peter E.* (Ob) 457.
- Bundle-branch block, partial functional, paradoxically relieved by stimulation (Ab) 682.
- Burrows, *Dorothy Jean* (Ob) 227.
- Bursitis, patellar, treated by injection of tincture metaphen with apparent cure; 3 cases, J. C. Diamond 419.
- C
- Cæsarean section, value in pre-eclamptic toxæmia (Ab) 451.
- Calculi, renal, and hydronephrosis, gastrointestinal symptoms in, E. Smith 281.
- " salivary (Ab) 451.
- Calculus, spontaneous expulsion of, from Wharton's duct; case, A. E. Harbeson 537.
- Calkin, *James O.* (Ob) 578.
- Campbell, *James A.* (Ob) 457.
- Canada, radium from (Ab) 329.
- Canadian formulary and reference companion, V. E. Henderson and G. H. W. Lucas 497.
- " medical protective association (E) 312.
- Cancer of breast, irradiation therapy in, G. E. Pfahler 602.
- " external, treatment by radiotherapy, G. E. Richards 246.
- " and heredity (Ab) 450.
- " importance of early diagnosis in (E) 540.
- " intermediate causes of death in (Ab) 100.
- " intra-oral; radiation treatment, C. W. Prowd 182.
- " prevention of (Ab) 446.
- " of stomach, F. N. G. Starr 188.
- Carbert, *George Brunt* (Ob) 457.
- Carbohydrate diet, high, in treatment of diabetes mellitus (Ab) 106.
- Carbon monoxide in city streets (Ab) 445.
- Caruncle of kidney, N. E. Berry and J. E. Nichol 141.
- Carcinoma of the bronchi, J. C. Meakins and J. W. MacLeod 268.
- " " colon and rectum; diagnosis and treatment, D. F. Jones 471.
- " primary, of gallbladder (Ab) 102.
- Cardiac disorders, prognosis in, R. D. Rudolf 35.
- " efficiency, average dynamic blood pressure, new criterion of, R. J. Lajoie 276.
- " hypertrophy, gross, in myocardial infarction (Ab) 226.
- " rupture with perforation of interventricular septum; two cases (Ab) 219.
- Cardiovascular disease, permanent organic, after thyrotoxæmia (Ab) 571.
- " syphilis, bismuth in treatment of (Ab) 224.
- Carditis, rheumatic, angina pectoris in young people associated with, W. W. Eakin 13.
- Cartilage, semilunar, injuries of; effective treatment of recent injuries and of some recurrent types, C. S. Wright 618.
- Catheter, metal, as aid in differentiating tumours of pelvic origin, A. D. Campbell 71.
- Cement dust, effect upon workers (Ab) 687.
- Centrifuge and molecular weight determinations (E) 426.
- Cerberus, truth about, W. B. Howell 202.
- Cerebral involvement in head injury (Ab) 338.
- Cervical cord, glioma of; case, I. Allen 417.
- Character of diseases, changes in (E) 542.
- Chemistry, muscle, newer knowledge of (E) 74.
- Childhood, ketogenic diet in treatment of urinary infections of (Ab) 455.
- Children, lead-poisoning in (E) 196.
- " spinal anæsthesia in, C. I. Junkin 51.
- " tuberculosis in, A. Goldbloom 286.
- Cholesterol content of blood plasma in diabetes mellitus, significance of, I. M. Rabinowitch 162.
- Cinq-Mars, *Joseph* (Ob) 578.
- Cirrhosis, hepatic; etiology and pathogenesis (Ab) 577.
- Clarke, *Lewis Adam* (Ob) 108.
- Clendenan, *Arthur E.* (Ob) 341.
- Clinical experiences with avertin anæsthesia, K. M. Heard 151.
- " significance of ocular musculature (Ab) 105.
- Closure, aseptic, of temporary colostomy wounds, R. R. Fitzgerald 70.
- Cochran, *William Northrup* (Ob) 108.
- Colds, common, incidence and time-distribution in several groups kept under continuous observation (Ab) 455.
- Colles's fracture (Ab) 102.
- Collip, Professor J. B., F.R.S. (E) 545.
- Colloidal solution of metallic arsenic, changes in bone sarcoma after intravenous injection of; case, A. C. Hendrick and E. F. Burton 192.
- " thorium, effect of, on blood picture, R. Gottlieb 495.
- Colon and rectum, carcinoma of; diagnosis and treatment, D. F. Jones 471.
- " transverse, cyst of, in a boy of two and one-half years; case, W. H. Irvine 536.
- Colostomy wounds, temporary, aseptic closure of, R. R. Fitzgerald 70.
- Communicable diseases in general hospitals, treatment (Ab) 92.
- Conflict, mental, W. H. Cassels 624.
- Congenital deficiencies of ribs; case, I. Allen 69.
- Conjunctival fornix, primary sarcoma of, recurring at corneal-scleral junction (Ab) 686.
- Copper and manganese, influence of, on therapeutic activity of iron (Ab) 224.
- Cord, cervical, glioma of; case, I. Allen 417.
- Corneal-scleral junction, primary sarcoma of conjunctival fornix recurring at (Ab) 686.
- Coronary thrombosis, harmful effects of nitroglycerin with reference to (Ab) 108.
- Corpus luteum, graafian follicle and small follicle or lutein cysts, rupture of, simulating appendicitis (Ab) 684.
- Cortical extract, treatment of Addison's disease with (Ab) 107.
- Costs of medical care; report of committee (E) 198.
- " (Ab) 214. (E) 543.
- " " hospitals and report of committee on (Ab) 324.
- Couch, *John Albert* (Ob) 341.
- Country general practitioner, medical curriculum as viewed by, H. R. Clouston 317.
- Creeping eruption with reference to cutaneous myiasis; case, G. V. Bedford, D. H. Williams and M. V. B. Newton 377.
- Crookshank, *Robert P.* (Ob) 457.
- Culture diphtheriæ and diphtheroids, isolation of, from carriers, cases and normals, M. M. Johnston and M. J. Kaake 505.



- Curriculum, medical, as viewed by a country general practitioner, H. R. Clouston 317.  
Cyst of transverse colon in a boy of two and one-half years; case, W. H. Irvine 536.

## D

- Dacryocystitis, chronic suppurative, transplantation of lachrymal sac in, J. A. MacMillan 146.  
*Daigneault, Frederick H.* (Ob) 578.  
Danger of incomplete removal of apparently innocent tumours, J. C. Bloodgood 600.  
*Daniel, John Waterhouse* (Ob) 227.  
*d'Auteuil, Raymond* (Ob) 341.  
*Day, Robert Grenville* (Ob) 578.  
Death, intermediate causes of, in cancer (Ab) 100.  
Defects of the modern boy (Ab) 569.  
Deficiencies, congenital, of ribs; case, I. Allen 69.  
Dementia præcox treated by intraspinal injections of horse serum; case, N. Viner 420.  
*Densmore, James Douglas* (Ob) 108.  
*Derome, William James* (Ob) 578.  
Diabetes insipidus, J. E. Long 508.  
    " mellitus, high carbohydrate diet in treatment of (Ab) 106.  
    " " significance of cholesterol content of blood plasma in, I. M. Rabinowitch 162.  
    " " and traumatism (Ab) 681.  
    " ocular (Ab) 686.  
    " staphylococcal infections in, J. A. Gilchrist and S. L. Alexander 386.  
Diet, high carbohydrate, in treatment of diabetes mellitus (Ab) 106.  
    " ketogenic, in treatment of urinary infections of childhood (Ab) 455.  
Digitalis administration, D. M. Baltzan 527.  
Diphtheroids and culture diphtheria, isolation of, from carriers, cases, and normals, M. M. Johnston and M. J. Kaake 505.  
Diplobacillary infection (Ab) 223.  
Diseases, changes in character of (E) 542.  
    " communicable, in general hospitals; treatment (Ab) 92.  
Disseminated sclerosis, etiology and symptomatology of (Ab) 337.  
Diuretics in patients with congestive heart failure (Ab) 106.  
Diuretics, experimental observations when injected into one renal artery of dog (Ab) 338.  
Doctors, too many in France (Ab) 100.  
Door-check, simple (Ab) 204.  
*Drouin, Alfred* (Ob) 108.  
*Drum, Lorne* (Ob) 578, 688.  
*Dufresne, G. A. H.* (Ob) 341.  
Duodenal mucosa, relation to insulin (Ab) 106.  
Duodenum, diseases of, and their treatment, D. C. Balfour 2.  
Dura, endothelioma of (Ab) 450.  
Dust, cement, effect upon workers (Ab) 687.  
*Dutilly, Anthème* (Ob) 579.  
Dynamic blood pressure, average, new criterion of cardiac efficiency, R. J. Lajoie 276.  
Dyspepsia, functional, J. W. Scott 518.

## E

- Eclamptic toxæmia, relation of placental infarcts to (Ab) 334.  
Editorials. See page xi.  
Edinburgh letter (C) 96, 211, 327, 442, 565, 677.  
Education, medical, A. Primrose 78.  
    " and medical learning, H. A. Skinner 429.  
    " medical, problem of (E) 72.  
    " " student looks at, A. C. Corcoran 662.  
    " " in the United States (Ab) 98.  
Electrocardiograms of low-voltage variety, significance of (Ab) 680.  
Electromedical apparatus, shock from (Ab) 670.

- Elliott, Horace Ray* (Ob) 228.  
Embolism, pulmonary; experimental study, G. E. Hall and G. H. Ettinger 357.  
Empyema, tuberculous (Ab) 340.  
Enamelled vessels, antimony poisoning from (Ab) 568.  
Encephalitis, atypical forms of, A. H. Gordon 8.  
Endocarditis, subacute bacterial, as complication of pregnancy (Ab) 452.  
Endoscopic revision of obstructing prostate, technical consideration of (Ab) 452.  
Endothelioma of dura (Ab) 450.  
Epidemiology, bacteriology and treatment of puerperal sepsis (Ab) 573.  
Epithelioma, adamantine (Ab) 682.  
Erythema nodosum (E) 307.  
Ether, anæsthetic, present status regarding the common impurities, W. B. Neff 627.  
Exophthalmic goitre. See Goitre.  
Experimental laboratory and medicine (Ab) 568.  
    " observations on diuretics injected into one renal artery of dog (Ab) 338.

## F

- Fairie, J. Arthur* (Ob) 342.  
Fall hay fever pollens of Canada, O. C. Durham 604.  
Femur, fractures of neck of (Ab) 335.  
Ferments and hydrochloric acid, pernicious anæmia with return of, after treatment (Ab) 571.  
Fever, rat-bite, in Canada, R. C. Stewart 608. Case, H. P. Melanson 656.  
    " relapsing, in North America with report of outbreak in British Columbia, J. H. Palmer and D. J. M. Crawford 643.  
    " rheumatic, with familial and hereditary characteristics; case, H. C. Jamieson 304.  
    " sustained artificial, in intractable asthma (Ab) 577.  
    " typhoid, unusual clues to diagnosis of, E. G. Simmonds 382.  
    " undulant, and missed diagnoses (E) 660.  
    " " simulating influenza; case, H. R. Clouston 535.  
Fibroma, ovarian; case, J. H. Duncan 654.  
Fibrosis, myocardial, pathogenesis of (Ab) 218.  
First aid and medical profession (E) 76.  
*Fiset, Louis* (Ob) 579.  
*Fletcher, Arthur Guy Ashton* (Ob) 458.  
Foci, septic, effect of removal on course of nephritis (Ab) 333.  
Formula, Lambkin's (C) 97.  
Formulary, Canadian, and reference companion, V. E. Henderson and G. H. W. Lucas 497. (Ab) 445. (E) 661.  
Fornix, conjunctival, primary sarcoma of, recurring at corneal-scleral junction (Ab) 686.  
Fracture, Colles's (Ab) 102.  
    " possible, x-rays in (Ab) 448.  
Fractures of neck of femur (Ab) 335.  
France, too many doctors in (Ab) 100.  
*Fraser, Donald Blair* (Ob) 342, 579.  
Frequency currents, high, clinical study of artificial hyperthermia induced by (Ab) 339.  
Friedman modification of Aschheim-Zondek test for diagnosis of pregnancy, C. H. Best and E. W. McHenry 599.  
Functional dyspepsia, J. W. Scott 518.  
    " neuroses, A. McCausland 293.

## G

- Gall-bladder and biliary ducts, benign papillomata of; case, C. K. P. Henry 300.  
    " primary carcinoma of (Ab) 102.  
*Gandier, Joseph Charles* (Ob) 342.  
Gastric juice, concentrated, effect of single injection on pernicious anæmia (Ab) 340.  
    " secretion of pernicious anæmia (Ab) 578.  
Gastrointestinal symptoms in hydronephrosis and renal calculi, E. Smith 281.

- Gauthier, J. T. Arthur* (Ob) 458.  
 Gee's disease; idiopathic steatorrhœa (Ab) 680.  
 General practitioner, country, medical curriculum as viewed by, H. E. Clouston 317.  
 Genital epithelia, morphology of, in differentiation anomalies (Ab) 335.  
 Genitalia, external, resection of sensory nerves of perineum in certain irritative conditions of (Ab) 572.  
 Genito-urinary disease, significance of backache in, M. I. Seng 283.  
 Gentian violet, staphylococcus aureus pyæmia with osteomyelitis treated with; case, M. L. Stout 190.  
 Genu recurvatum, paralytic, operative treatment (Ab) 336.  
 German medical journals, high cost of (E) 428. (C) 679.  
 Germany, overcrowding of medical schools in (Ab) 331.  
 Gestation, tubal, intraperitoneal rupture of, followed in twelve months by a second; case, G. L. Bird 536.  
*Gilmour, Charles Hawkins* (Ob) 689.  
 Gland, thyroid, congenital hypertrophy of; case, D. S. Mitchell and R. E. Struthers 27.  
 " " effect of tracheal compression on, A. C. Abbott, A. M. Goodwin and S. Meltzer 481.  
 " " small alveolar large-cell adenocarcinoma of; case, E. M. Eberts 650.  
 " " tuberculosis of (Ab) 334.  
 Glands, parathyroid, diagnosis and treatment of disorders of, R. F. Farquharson 629.  
 Glioma of cervical cord; case, I. Allen 417.  
 Glycosuria following injections of anterior pituitary extracts (Ab) 106.  
 Goitre, exophthalmic, why have deaths increased (Ab) 686.  
 Gonadotropic hormones, therapeutic application of (Ab) 107.  
 Gonorrhœal arthritis, complement fixation in, F. Green 289.  
 Graafian follicle, corpus luteum and small follicle or lutein cysts, rupture of, simulating appendicitis (Ab) 684.  
 Granuloma, palpebral; two cases (Ab) 575.  
*Griffin, T. W.* (Ob) 342.  
 Growths, intrathoracic new, and value of bronchoscopy in diagnosis and treatment (Ab) 332.  
 Gynecology, complications of radiation treatment in (Ab) 221.  
 " " radium therapy in (Ab) 452.
- H
- Hæmorrhage, spontaneous intracerebral; operative treatment, W. Penfield 369.  
 " " subarachnoid, C. K. Russel 133.  
*Haig, Andrew* (Ob) 228.  
 Hair, obstruction of stomach by impacted mass of; case, J. A. Faulkner and R. C. Adams 66.  
 Hand slit-lamp, N. B. Harman 539.  
 Hare-lip, H. O. Foucar 373.  
 Hay fever and asthma (Ret), T. G. Heaton 313.  
 " " pollens, fall, of Canada, O. C. Durham 604.  
 Head injury, cerebral involvement in (Ab) 338.  
 Health committee of League of Nations (E) 309.  
 " hazards, common industrial (Ab) 225.  
 " insurance, R. A. Dick 114.  
 " " Alberta hospitals state their views on (Ab) 325.  
 " record for 1932 (Ab) 446.  
 Heart block and branch arborization (Ab) 218.  
 " disease, rheumatic, social incidence of; statistical study in Yale university students (Ab) 217.  
 " " significant, and hyperthyroidism following subtotal thyroidectomy, what happens eventually to patients with (Ab) 570.
- Heart failure, congestive, diuresis in patients with (Ab) 106.  
 " in old age; post-mortem study of 381 cases aged 70 years or more (Ab) 681.  
 " thyroid (Ret) W. H. Hatfield 546.  
*Heggie, William Carter* (Ob) 458.  
 Hepatic cirrhosis; etiology and pathogenesis (Ab) 577.  
 Hereditary and familial characteristics, rheumatic fever with; case, H. C. Jamieson 304.  
 " factor in human neoplasms (Ab) 105.  
 Heredity as aid to modern therapy, M. T. Macklin 394.  
 " and cancer (Ab) 450.  
 Hodgkin's disease, abdominal, J. Feigenbaum 179.  
*Hogan, Edward Vincent* (Ob) 342.  
*Hoover, Jacob Henry* (Ob) 108.  
*Hopkins, Benjamin Arthur* (Ob) 342.  
 Hormones, gonadotropic, therapeutic application of (Ab) 107.  
 Horn, closed accessory, uterus bicornis with; case, W. C. Whiteside 302.  
 Horse serum, dementia præcox treated by intraspinal injections of; case, N. Viner 420.  
 Hospital care, periodic payment plans for purchase of (group hospitalization) (E) 658.  
 " relative length of stay in, over twenty year period (Ab) 93.  
 " privileges, should doctors pay for (E) 200.  
 " prospects for 1933 (E) 76.  
 Hospitals, Alberta, state their views on health insurance (Ab) 325.  
 " for communicable and venereal diseases in Japan (Ab) 204.  
 " general, treatment of communicable diseases in (Ab) 92.  
 " period of liability reduced in Ontario (Ab) 439.  
 " and report of committee on costs of medical care (Ab) 324.  
 " safety in (Ab) 670.  
 Human ova; comparative study, P. J. Kearns 640.  
 Hydatidiform mole in a primipara; case; F. H. Coppock 69.  
 Hydrochloric acid and ferments, pernicious anæmia with return of, after treatment (Ab) 571.  
 Hydronephrosis and renal calculi, gastrointestinal symptoms in, E. Smith 281.  
 Hyperemesis gravidarum, observations in treatment of; cases, J. Mann 48.  
 " " treated as temporary adrenal cortex insufficiency, W. N. Kemp 389.  
 Hyperinsulinism cured by surgical intervention (Ab) 682.  
 Hyperparathyroidism without parathyroid tumour (Ab) 340.  
 Hyperplasia of thyroid, production of, with hyperthyroidism in the albino rat, E. M. Anderson 23.  
 Hyperthermia, artificial, induced by high frequency currents (Ab) 339.  
 Hyperthyroidism, production of hyperplasia of the thyroid with, in the albino rat, E. M. Anderson 23.  
 " and significant heart disease following subtotal thyroidectomy, what happens eventually to patients with (Ab) 570.  
 " unusual complications of (Ab) 570.  
 Hypertrophy, congenital, of thyroid gland; case, D. S. Mitchell and R. R. Struthers 27.  
 " gross cardiac, in myocardial infarction (Ab) 226.
- I
- Idiopathic steatorrhœa; Gee's disease (Ab) 680.  
 Indian medicine in British Columbia, G. E. Darby 433.  
 Industrial health hazards, common (Ab) 225.  
 Infarction, myocardial, gross cardiac hypertrophy in (Ab) 226.



- Infarcts, placental, relation of, to eclamptic toxæmia (Ab) 334.  
 Injuries of semilunar cartilage; effective treatment of recent injuries and of some recurrent types, C. S. Wright 618.  
 Insulin, relation of duodenal mucosa to (Ab) 106.  
 Interventricular septum, perforation of, with cardiac rupture; two cases (Ab) 219.  
 Intracerebral hæmorrhage, spontaneous; operative treatment, W. Penfield 369.  
 Intractable asthma, sustained artificial fever in (Ab) 577.  
 Intraocular pressure, effects of adrenaline on, and its clinical significance (Ab) 104.  
 Intraperitoneal rupture of tubal gestation followed in twelve months by a second; case, G. L. Bird 536.  
 Intrathoracic new growths and value of bronchoscopy in diagnosis and treatment (Ab) 332.  
 Intratracheal administration of nitrous oxide, C. C. Stewart 295.  
 Intrauterine radium therapy as conservative method of treatment (Ab) 221.  
 Iodized salt (Ab) 567.  
 Iron, influence of copper and manganese on therapeutic activity of (Ab) 224.  
 " suggestion for administration of, G. H. W. Lucas and V. E. Henderson 298.  
 Irradiation therapy in cancer of breast, G. E. Pfahler 602.

## J

- Jones, Annie Verth (Ob) 228.  
 Journals, German medical, high cost of (E) 428. (C) 679.

## K

- Karn, Charles Jacob Wesley (Ob) 458.  
 Kelso, John Edward Henry (Ob) 108.  
 Ketogenic diet in treatment of urinary infections in childhood (Ab) 455.  
 Kidney, carbuncle of, N. E. Berry and J. E. Nichol 141.  
 Kidneys, bilateral cortical necrosis of (Ab) 332.

## L

- Laboratory, experimental, and medicine (Ab) 568.  
 Labour, painless second stage, H. R. Clouston 423.  
 Lachrymal duct, latent infection of (Ab) 223.  
 " sac, transplantation of, in chronic suppurative dacryocystitis, J. A. Macmillan 146.  
 Lacteals, Gaspar Asselius the discoverer of, H. B. Anderson 666.  
 Lafferty, James (Ob) 342.  
 Lambkin's formula (C) 97.  
 Laparotomy, pneumo-peritoneum following, F. I. Lewis 18.  
 LaRue, Eugene (Ob) 458.  
 Larynx, tuberculosis of, and artificial sunlight treatment (Ab) 577.  
 Lead-poisoning in children (E) 196.  
 League of Nations health committee 309.  
 Lesions of placental vessels; relationship to pathology of placenta; effect upon fetal morbidity and mortality (Ab) 684.  
 Liability, period for hospitals reduced in Ontario (Ab) 439.  
 Limbs, vasodilatation in, in response to warming the body (Ab) 338.  
 Lingual thyroid (Ab) 334.  
 Literature, prescription of (E) 545.  
 Liver, effects of avertin on, in multiple dressings, L. H. McKim and W. Bourne 149.  
 " extract, treatment of pernicious anæmia by intramuscular administration of, E. W. McHenry, E. S. Mills and R. F. Farquharson 123.  
 London letter (C) 95, 211, 328, 444, 566, 678.  
 Lumbar sympathectomy in thrombo-angiitis obliterans, results of (Ab) 571.

## M

- McClenahan, Daniel Alexander (Ob) 458.  
 McLean, Angus (Ob) 579.  
 McMillan, Daniel S. (Ob) 109.  
 McNaughton, John Alexander (Ob) 458.  
 Maggots and osteomyelitis (Ab) 333.  
 Magnesium deficiency in animals (Ab) 687.  
 Malo, Bernard (Ob) 342.  
 Manganese and copper, influence of, on therapeutic activity of iron (Ab) 224.  
 Marmite, treatment of pernicious anæmia by (Ab) 455.  
 Mastoid operation, radical, causes of persistent discharge following, J. K. M. Dickie 184.  
 Mastoiditis, acute, pain and tenderness in, L. S. Barnes 533.  
 Matheson, John Edward (Ob) 109.  
 Maxillary antrum, pin in; case, R. P. Wright and J. W. Gerrie 65.  
 " sinus, mucocele of, affecting ocular globe; case (Ab) 223.  
 Mayrand, Clovis (Ob) 109.  
 Measles, intensive vitamin therapy in (Ab) 455.  
 Medical care, committee on costs of; report (E) 192. (Ab) 214. (E) 543.  
 " " report of committee on costs of, and hospitals (Ab) 324.  
 " curriculum as viewed by a country general practitioner, H. R. Clouston 317.  
 " education, A. Primrose 78.  
 " " problem of (E) 72.  
 " " student looks at, A. C. Corcoran 662.  
 " " in the United States (Ab) 98.  
 " journals, high cost of German (E) 428. (C) 679.  
 " learning and education, H. A. Skinner 429.  
 " practitioner, private, relationship of, to preventive medicine (Ab) 99.  
 " profession, first-aid and (E) 76.  
 " schools in Germany, overcrowding of (Ab) 331.  
 " sciences, teaching of preliminary and basal, J. Miller 548.  
 " societies. See page xi.  
 Medicine and the experimental laboratory (Ab) 568.  
 " Indian, in British Columbia, G. E. Darby 433.  
 " preventive, relationship of private medical practitioner to (Ab) 99.  
 " source of modern, A. Macphail 239.  
 Medico-legal. See page xii.  
 Megalocytic anæmias. See Anæmias.  
 Mental conflict, W. H. Cassels 624.  
 Mercury poisoning (Ab) 455.  
 Metal catheter as aid in differentiating tumours of pelvic origin, A. D. Campbell 71.  
 Metallic arsenic, changes in bone sarcoma after intravenous injection of colloidal solution of; case, A. C. Hendrick and E. F. Burton 192.  
 Metaphen, patellar bursitis treated by injection of, with apparent cure; 3 cases, J. C. Diamond 419.  
 Michaud, J. Elie (Ob) 342.  
 Microculture, tissue substrate, for tubercle bacilli (Ab) 424.  
 Milne, George Dawson (Ob) 579.  
 Modern science, preface to (Ab) 98.  
 Mole, hydatidiform, in a primipara; case, F. H. Coppock 69.  
 Molecey, George E. T. (Ob) 343.  
 Molecular weight determinations and the centrifuge (E) 426.  
 Monro, A. S., bequest to university of British Columbia (E) 78.  
 Montreal general hospital, Jennie Webster biography of, J. K. Gordon 552.  
 Morphology of genital epithelia in differentiation of anomalies (Ab) 335.  
 Moylan vs. Ottawa civic hospital (Ab) 447.  
 Mucocele of maxillary sinus affecting the ocular globe; case (Ab) 223.  
 Mucosa, duodenal, relation to insulin (Ab) 106.  
 Multiple sclerosis in father and daughter (Ab) 576.

*Munro, John Alexander* (Ob) 109.

Muscle chemistry, newer knowledge of (E) 74.

Musculature, ocular, clinical significance of (Ab) 105.

Myalgia of abdominal wall, C. Hunter 157.

Myelosis, aleukemic, with osteosclerosis (Ab) 682.

Myiasis, cutaneous, creeping eruption with reference to; case, G. V. Bedford, D. H. Williams and M. V. B. Newton 377.

Myocardial fibrosis, pathogenesis of (Ab) 218.

" infarction, gross cardiac hypertrophy in (Ab) 226.

" lesions and paroxysmal tachycardia, relationship between (Ab) 218.

## N

Nasal sinusitis, chronic; treatment, J. G. Hunt 54.

Neck of femur, fractures of (Ab) 335.

Necrosis, bilateral cortical, of kidneys (Ab) 332.

Neoplasms, human, hereditary factor in (Ab) 105.

Nephritis, effect of removal of septic foci on course of (Ab) 333.

Nerves, sensory, of perineum, resection of, in certain irritative conditions of external genitalia (Ab) 572.

Nervous system, sympathetic, disorders of; response to medical and surgical treatment (Ab) 454.

Neuralgia, trigeminal, treatment by cerebellar route (Ab) 454.

Neuritis, bilateral optic, oculo-glandular tularæmia with, resulting in complete blindness; case (Ab) 453.

Neuroses, functional, A. McCausland 293.

Newborn, resuscitation of, W. E. Brown 175.

News. See page xii.

Nitroglycerin, harmful effects of, with reference to coronary thrombosis (Ab) 108.

Nitrous oxide, intratracheal administration of, C. C. Stewart 295.

Noble, Charles Thompson (Ob) 109, 341.

## O

Oakes, Stevenson vs. (Ab) 447.

Observations, experimental, on diuretics injected into one renal artery of dog (Ab) 338.

Occipito-posterior position, J. D. McQueen 42.

Ocular diabetes (Ab) 686.

" globe, mucocele of maxillary sinus affecting; case (Ab) 223.

" musculature, clinical significance of (Ab) 105.

Oculo-glandular tularæmia with bilateral optic neuritis resulting in complete blindness; case (Ab) 453.

Oedema, experimental, produced by plasma protein depletion (Ab) 226.

Oesophagus, congenital atresia of; case, F. A. Macneil 422.

" ulcers of, W. L. Ritchie 392.

Operative treatment of paralytic genu recurvatum (Ab) 336.

Ophthalmology, tuberculin in diagnosis and treatment in (Ab) 685.

Optic neuritis, bilateral, oculo-glandular tularæmia with, resulting in complete blindness; case (Ab) 453.

Orange-crush beverage, vitamin C content of (Ab) 423.

Osteitis deformans (Ab) 449.

" fibrosa with multiple benign giant-cell tumours, L. H. Leggett 636.

Osteomyelitis, acute, of vertebræ (Ab) 683.

" and maggots (Ab) 333.

" staphylococcus aureus pyæmia with, treated with gentian violet; case, M. L. Stout 190.

Osteosclerosis, aleukæmic myelosis with (Ab) 682.

Ottawa civic hospital, Moylan vs. (Ab) 447.

Ova, human; comparative study, P. J. Kearns 640.

Ovarian fibroma; case, J. H. Duncan 654.

Ovary-stimulating hormones, biological and clinical importance of (Ab) 688.

## P

*Palmer, Guy Filby* (Ob) 228.

Palpebral granuloma; two cases (Ab) 575.

Pancreatitis, acute (Ab) 451.

Papillomata, benign, of gall bladder and biliary ducts; case, C. K. P. Henry 300.

Parathyroid dysfunction; case treated with parathormone and irradiated ergosterol, S. Ortenberg 490.

" glands. See Glands.

" tumour. See Tumour.

*Park, Philip Pattison* (Ob) 109.

Paroxysmal tachycardia and myocardial lesions, relationship between (Ab) 218.

Patellar bursitis treated by injection of tincture metaphen with apparent cure; 3 cases, J. C. Diamond 419.

*Patton, Charles J.* (Ob) 109.

Payment plans, periodic, for purchase of hospital care (group hospitalization) (E) 658.

*Peltier, Ernest* (Ob) 689.

Pelvis, renal, tumours of (Ab) 222.

*Pépin, François* (Ob) 458.

Peptic ulcers. See Ulcers.

Perforation of interventricular septum, cardiac rupture with; two cases (Ab) 219.

Pericarditis (Ab) 100.

" tuberculous, with effusion treated by means of pneumopericardium; case (Ab) 223.

Perineum, resection of sensory nerves of, in certain irritative conditions of external genitalia (Ab) 572.

Periodic payment plans for purchase of hospital care (group hospitalization) (E) 658.

Peritonitis (Ab) 226.

" pneumococcal and streptococcal (Ab) 103.

Pernicious anæmia. See Anæmia.

Physiotherapy utilizations in hospitals (E) 427.

Pin in maxillary antrum; case, R. P. Wright and J. W. Gerrie 65.

Pituitary extracts, anterior, glycosuria following injections of (Ab) 106.

Placental infarcts, relation of, to eclamptic toxæmia (Ab) 334.

" vessels, lesions of; relationship to pathology of placenta; effect upon fetal morbidity and mortality (Ab) 684.

Plasma protein depletion, experimental oedema produced by (Ab) 226.

Pneumococcal and streptococcal peritonitis (Ab) 103.

Pneumonia problem in steel industry (Ab) 456.

" serum treatment of (Ab) 224.

Pneumopericardium, tuberculous pericarditis with effusion treated by; case (Ab) 223.

Pneumoperitoneum following laparotomy, F. I. Lewis 18.

Pneumothorax, bilateral spontaneous, in ambulatory patient; case, L. Macpherson 305.

" re-established; case, L. M. Mullen 195.

Poisoning, antimony, from enamelled vessels (Ab) 568.

" mercury (Ab) 455.

Poliomyelitis, prevention of (Ab) 456.

Portraits, famous medical 670.

Post-mortem examinations, findings of special clinical interest revealed at, W. J. Deadman 401.

Pott's disease, J. A. Nutter 648.

Practitioner, private medical, relationship of, to preventive medicine (Ab) 99.

*Pratten, Frank Harten* (Ob) 228.

Pregnancy, Friedman modification of Aschheim-Zondek test for diagnosis of, C. H. Best and E. W. McHenry 599.

" later, researches on toxæmias of (Ab) 335.

" phases of toxæmias of (Ab) 573.

" pyelitis of, G. S. Foulds 172.

" subacute bacterial endocarditis as complication of (Ab) 452.

" toxæmias of, W. J. Stevens 513.

Preventive medicine, relationship of private medical practitioner to (Ab) 99.



- Price, Leverett H.* (Ob) 458.  
 Primipara, hydatidiform mole in; case, F. H. Coppock 69.  
 Private patients, transfer of, to public wards and vice versa (Ab) 203.  
 Prostate, obstructing, technical consideration of endoscopic revision of (Ab) 452.  
 Prostatectomy, alternative to (Ab) 221.  
 Prostatic obstruction, changes in wall of bladder secondary to (Ab) 333.  
 Protein depletion, plasma, experimental oedema produced by (Ab) 226.  
 Provincial association notes. *See* page xii.  
 Pseudomyxoma peritonei originating in a mucocele of appendix, H. H. Pitts and E. A. Gee 266.  
 Psoriasis, treatment of (C) 214.  
 Public wards, transfer of private patients to, and vice versa (Ab) 203.  
 Puerperal sepsis, epidemiology, bacteriology and treatment of (Ab) 573.  
 Pulmonary embolism; experimental study, G. E. Hall and G. H. Ettinger 357.  
 Purpura hæmorrhagica, splenectomy in (Ab) 219.  
 Pyelitis of pregnancy, G. S. Foulds 172.
- R**
- Race, white, sicklæmia in (Ab) 101.  
 Radiation treatment in gynæcology, complications of (Ab) 221.  
 " " of intra-oral cancer, C. W. Prowd 182.  
 Radiology, antenatal (Ab) 104.  
 Radiotherapy, treatment of external cancer by, G. E. Richards 246.  
 " in treatment of malignant tumours; critical analysis, G. Forssell 30.  
 Radium from Canada (Ab) 329.  
 " control of (Ab) 330.  
 " remedies, quack (Ab) 330.  
 " therapy in gynæcology, complications of (Ab) 452.  
 " " intrauterine, as conservative method of treatment (Ab) 221.  
 Rae, John, Arctic explorer, and his search for Franklin, R. Mitchell 85.  
 Rat-bite fever. *See* Fever.  
 Rectum and colon, carcinoma of; diagnosis and treatment, D. F. Jones 471.  
 " disturbances produced in, by disease elsewhere, E. A. Daniels 499.  
 Relapsing fever. *See* Fever.  
 Renal calculi and hydronephrosis, gastrointestinal symptoms in, E. Smith 281.  
 " pelvis, tumours of (Ab) 222.  
 Research council, asthma (Ab) 331.  
 Researches, Canadian, on tubercle bacillus (E) 427.  
 Resuscitation of the newborn, W. E. Brown 175.  
 Revue française de chirurgie réparatrice, plastique et esthétique (E) 202.  
 Rheumatic carditis, angina pectoris in young people associated with, W. W. Eakin 13.  
 " fever. *See* Fever.  
 " heart disease, social incidence of; statistical study in Yale university students (Ab) 217.  
 Rheumatism, acute, cutaneous reactions in (Ab) 457.  
 Rheumatoid arthritis, deliberate opening of bones as treatment for (E) 307.  
 Ribs, congenital deficiencies of; case, I. Allen 69.  
 Riverin, Adélard (Ob) 109.  
 Rivier, Charles E. (Ob) 458.  
 Ross, John Franklin (Ob) 109.  
 Rupture, cardiac, with perforation of interventricular septum; two cases (Ab) 219.  
 " of graafian follicle, corpus luteum and small follicle or lutein cysts simulating appendicitis (Ab) 684.  
 Rupture, intraperitoneal, of tubal gestation followed in twelve months by a second; case, G. L. Bird 536.  
 " of uterus, V. Chung (C) 213.
- S**
- Sac, lachrymal, transplantation of, in chronic suppurative dacryocystitis, J. A. MacMillan 146.  
 Saddington, Ronald Steele (Ob) 458.  
 Salivary calculi (Ab) 451.  
 Salt, iodized (Ab) 567.  
 Sarcoma, bone, changes after intravenous injection of colloidal solution of metallic arsenic; case, A. C. Hendrick and E. F. Burton 192.  
 " primary, of conjunctival fornix recurring at corneal-scleral junction (Ab) 686.  
 Science, modern, preface to (Ab) 98.  
 Sciences, basal medical, teaching of preliminary and, J. Miller 548.  
 Sclerosis, multiple, in father and daughter (Ab) 576.  
 Scott, Stuart (Ob) 228.  
 Secretion, gastric, of pernicious anæmia (Ab) 578.  
 Semilunar cartilage, effective treatment of recent injuries and recurrent types, C. S. Wright 618.  
 Sensation, observations on; sensory functions of skin for touch and pain (Ab) 687.  
 Sepsis, puerperal, epidemiology, bacteriology and treatment of (Ab) 573.  
 Septic foci, effect of removal of, on course of nephritis (Ab) 333.  
 Serum treatment of pneumonia (Ab) 224.  
 Shock from electro-medical apparatus (Ab) 670.  
 Sicklæmia in the white race (Ab) 101.  
 Sinus, maxillary, mucocele of, affecting ocular globe; case (Ab) 223.  
 Sinusitis, chronic nasal; treatment, J. G. Hunt 54.  
 Skin, sensory functions of, for touch and pain; observations on sensation (Ab) 687.  
 Slit-lamp, hand, N. B. Harman 539.  
 Smith, Emily Janet Irvine (Ob) 228.  
 Solanum tuberosum, H. P. Wright and C. M. Kirk 398.  
 Spinal anæsthesia, R. M. Tovell 404.  
 " in children, C. I. Junkin 51.  
 Spleen, indications for and results of removal of (Ab) 219.  
 " removal of (Ab) 220.  
 Splenectomy in purpura hæmorrhagica (Ab) 219.  
 Sportsmanship (Ab) 447.  
 Staphylococci infections in diabetes, J. A. Gilchrist and S. L. Alexander 386.  
 Staphylococcus aureus pyæmia with osteomyelitis treated with gentian violet; case, M. L. Stout 190.  
 " infection producing an inflammatory mass simulating a spinal cord tumour; case, F. A. Turnbull, H. H. Hyland and K. G. McKenzie 415.  
 Steatorrhœa, idiopathic; Gee's disease (Ab) 680.  
 Steel industry, pneumonia problem in (Ab) 456.  
 Stevenson vs. Oakes (Ab) 447.  
 Stewart, Dugald (Ob) 109.  
 Stewart, George David (Ob) 690.  
 Stewart, William Oliphant (Ob) 228.  
 Stomach, cancer of, F. N. G. Starr 188.  
 " obstruction by impacted mass of hair; case, J. A. Faulkner and R. C. Adams 66.  
 Streptococcal and pneumococcal peritonitis (Ab) 103.  
 Subarachnoid hæmorrhage, spontaneous, C. K. Russel 133.  
 Sunlight treatment, artificial, tuberculosis of larynx and (Ab) 577.  
 Sycosis and x-rays, A. Marin 621.  
 Sylvestre, F. L. (Ob) 343.  
 Sympathectomy, lumbar, in thrombo-angiitis obliterans, results of (Ab) 571.  
 " for tic douloureux, R. E. McKechnie 41.  
 Sympathetic nervous system, disorders; response to medical and surgical treatment (Ab) 454.  
 Syphilis, cardiovascular, bismuth in treatment of (Ab) 224.

## T

- Tachycardia, paroxysmal, and myocardial lesions, relationship between (Ab) 218.  
 Teaching of preliminary and of basal medical sciences, J. Miller 548.  
*Thayer, William Sydney* (Ob) 200.  
 Therapeutic abortion in Addison's disease, question of (Ab) 107.  
 Thorax, injuries of (Ab) 102.  
 Thorium, colloidal, effect of, on the blood picture, R. Gottlieb 496.  
 Thrombo-angiitis obliterans, in brothers (Ab) 220.  
 " " results of lumbar sympathectomy in (Ab) 571.  
 Thrombosis, coronary, harmful effects of nitroglycerin with reference to (Ab) 108.  
 Thyroid gland. *See* Gland.  
 " heart (Ret) W. H. Hatfield 546.  
 " lingual (Ab) 334.  
 " production of hyperplasia of, with hyperthyroidism in the albino rat, E. M. Anderson 23.  
 Thyroidectomy, subtotal, what happens eventually to patients with hyperthyroidism and significant heart disease following (Ab) 570.  
 Thyrotoxicemia, permanent organic cardiovascular disease after (Ab) 571.  
 Tic douloureux, sympathectomy for, R. E. McKechnie 41.  
 Tobacco hypersensitivity (Ab) 681.  
 Toxæmia, eclamptic, relation of placental infarcts to (Ab) 334.  
 " pre-eclamptic, value of Cæsarean section in (Ab) 451.  
 Toxæmias of later pregnancy, researches on (Ab) 335.  
 " " pregnancy, W. J. Stevens 513.  
 " " phases of (Ab) 573.  
 Tracheal compression, effect of, on thyroid gland, A. C. Abbott, A. M. Goodwin and S. Meltzer 481.  
 Trachoma, etiology, with reference to bacterium granulosis (Ab) 453.  
 Transfusion of blood, W. R. Esdale 57.  
 Transurethral application of ultraviolet irradiation and ventilation to interior of bladder for relief of tuberculosis and other infections of this organ (Ab) 685.  
 Traumatism and diabetes mellitus (Ab) 681.  
 Trigeminal neuralgia, treatment by cerebellar route (Ab) 454.  
 Tubal gestation, intraperitoneal rupture of, followed in twelve months by a second; case, G. L. Bird 536.  
 Tubercle bacillus, recent Canadian researches on (E) 427.  
 " bacilli, tissue substrate microculture for (Ab) 424.  
 Tuberculin in diagnosis and treatment in ophthalmology (Ab) 685.  
 " " treatment (Ab) 576.  
 Tuberculosis in children, A. Goldbloom 286.  
 " diminishing menace of (Ab) 687.  
 " of larynx and artificial sunlight treatment (Ab) 577.  
 " " thyroid gland (Ab) 334.  
 " transurethral application of ultraviolet irradiation and ventilation to interior of bladder for relief of, and other infections of this organ (Ab) 685.  
 Tuberculous empyema (Ab) 340.  
 " pericarditis with effusion treated by means of pneumopericardium; case (Ab) 223.  
 Tularæmia, oculo-glandular, with bilateral optic neuritis resulting in complete blindness; case (Ab) 453.  
 " pathological and clinical manifestations; 2 cases (Ab) 453.  
 Tumour, brain, distortions of visual fields in (Ab) 575.  
 " parathyroid, hyperparathyroidism without (Ab) 340.  
 Tumours, apparently innocent, danger of incomplete removal of, J. C. Bloodgood 600.

- Tumours, bone; diagnosis and treatment, B. L. Coley 521, 661.  
 " of extra-hepatic bile ducts exclusive of ampulla of Vater, C. M. McLaughlin, Jr. 255.  
 " malignant, radiotherapy in treatment of; critical analysis, G. Forssell 30.  
 " multiple benign giant-cell, with osteitis fibrosa, L. H. Leggett 636.  
 " of pelvic origin, metal catheter as aid in differentiating, A. D. Campbell 71.  
 " " renal pelvis (Ab) 222.  
 " " third ventricle (Ab) 575.  
 Typhoid carrier, perforated duodenal ulcer in; case, E. J. Clifford 194.  
 " fever. *See* Fever.

## U

- Ulcers of œsophagus, W. L. Ritchie 392.  
 " peptic, alkalosis in alkaline treatment of (Ab) 332.  
 " " etiology of post-operative (Ab) 572.  
 Ultraviolet irradiation and ventilation, transurethral application of, to interior of bladder for relief of tuberculosis and other infections of this organ (Ab) 685.  
 Undulant fever. *See* Fever.  
 University notes. *See* page xii.  
 Ureters, injury to, including accidental ligation during pelvic operations (Ab) 684.  
 Urinary infections of childhood, ketogenic diet in treatment of (Ab) 455.  
 Uterus, rupture (C) V. Chung 213.  
 " bicornis with closed accessory horn; case, W. C. Whiteside 302.  
 Uveitis, chronic, elective localization in determining etiology of (Ab) 574.

## V

- Vagina, adenocarcinoma of (Ab) 104.  
*Valiquet, Ulric* (Ob) 109.  
 Vasodilatation in limbs in response to warming the body (Ab) 338.  
 Ventricle, third, tumours of (Ab) 575.  
 Vertebræ, acute osteomyelitis of (Ab) 683.  
 Visual fields, distortions in cases of brain tumour (Ab) 575.  
 Vitamin C content of orange-crush beverage (Ab) 423.  
 " therapy, intensive, in measles (Ab) 455.

## W

- Walker, Holford* (Ob) 690.  
 Webster, Jennie, of the Montreal general hospital; biography, J. K. Gordon 552.  
 Wharton's duct, spontaneous expulsion of calculus from; case, A. E. Harbeson 537.  
 White race, sicklæmia in (Ab) 101.  
 Workmen's compensation problems (Ab) 336.  
 Wounds, temporary colostomy, aseptic closure of, R. R. Fitzgerald 70.

## X

- X-rays in case of possible fracture (Ab) 448.  
 " earliest clinical applications of, H. E. MacDermot 321.  
 " sycosis and, A. Marin 621.  
 Yale university, student's statistical study of social incidence of rheumatic heart disease in (Ab) 217.  
*Young, William Archibald* (Ob) 579.

## Association Notes

- Annual meeting, Saint John 90, 323, 438, 557, 668.  
 Famous medical portraits 670.  
 Meeting of the Executive Committee 90.  
 New Brunswick the fair 322.  
 Notice of motion *re* travelling expenses of Executive Committee 667.



Out door attractions of New Brunswick 203.  
Saint John, the old Loyalist city by the sea 560.

### Book Reviews

Accommodation in the human eye, R. A. Yeld 695.  
Acromegaly, F. R. Atkinson 349.  
Aids to materia medica, G. H. Newns 352.  
Anthropology and modern life, F. Boas 356.  
Asthma, hay fever and related disorders, S. M. Feinberg 466.  
Biochemistry of medicine, A. T. Cameron 464.  
Bronchiectasis, H. Ballon 695.  
Cancer; civilization; degeneration, J. Cope 354.  
Cardiac output of man in health and disease, A. Grollman 120.  
Case studies in the psychopathology of crime, vol. 1, B. Karpman 696.  
Chapters in American obstetrics, H. Thomas 696.  
Child and the tuberculosis problem, J. A. Myers 354.  
Chronic arthritis and fibrositis, diagnosis and treatment, B. L. Wyatt 695.  
Clinical gynaecology, C. J. Miller 118.  
Clinical ophthalmology for house-surgeons and students, J. M. Bickerton 697.  
Colon, rectum and anus, F. W. Rankin 349.  
Common causes of chronic indigestion, T. C. Hunt 700.  
" cold with special reference to part played by streptococci, pneumococci and other organisms, vol. 8, D. Thomson 586.  
" skin diseases, A. C. Roxburgh 470.  
Diabetes mellitus, I. M. Rabinowitch 694.  
Diagnosis and treatment of diseases of thyroid gland, G. Crile 234.  
Differential diagnosis of endocrine disorders, A. W. Rowe 468.  
Diseases of spinal cord, W. B. Cadwalader 470.  
Elements of medical treatment, 2nd ed., R. Hutchison 118.  
Experimental pharmacology and toxicology, H. G. Barbour 118.  
Extra-pharmacopœia of Martindale and Westcott, 20th ed., vol. 1, W. H. Martindale 352.  
Fractures, M. Sinclair 120.  
Fungous diseases, H. P. Jacobson 698.  
Gold-headed cane, W. Macmichael 700.  
Growth, J. L. Smith 464.  
" and development of the child. Pt. III. Nutrition, White House Conference Publication 352.  
Handbook of experimental pathology, G. Wagoner 350.  
Handbuch der gesamten Unfallheilkunde, vols. 1 and 2, edited by F. König 468.  
Hints to young practitioner, G. F. Smith 120.  
History of dermatology, W. A. Pusey 350.  
Hospitals and child health, White House Conference Publication 352.  
Inherited abnormalities of the skin, E. A. Cockayne 700.  
Injuries of the eye, H. V. Würdemann 697.  
Internal medicine: its theory and practice, edited by J. S. Musser 464.  
Introduction to zoology, Z. P. Metcalf 238.  
Italian medicine, *Clio Medica* no. 6, A. Castiglioni 238.  
Management of the sick infant, 4th ed., L. Porter 352.  
Manual of bacteriology, 9th ed., R. Muir 118.  
Materia medica, pharmacology and therapeutics, 3rd ed., W. A. Bastedo 350.  
Medical annual, edited by C. F. Coombs 698.  
Medicinal and poisonous plants of southern Africa, J. M. Watt 236.  
Medicine among the American Indians, E. Stone 697.  
Non-tropical sprue: study in idiopathic steatorrhœa, T. E. H. Thaysen 236.  
Nutrition and diet in tuberculosis (*Ernährung und diät bei tuberkulose*), A. Bacmeister 354.  
" service in the field and child health centres, White House Conference Publication 354.

Obstetric education, White House Conference Publication 120.  
Office surgery, F. Beekman 468.  
Operative surgery, A. Miles 698.  
Organic chemistry for medical students, G. Barger 236.  
Papers relating to pituitary body, hypothalamus, and parasympathetic nervous system, H. Cushing 466.  
Personality, many in one: essay in individual psychology, J. W. Bridges 234.  
Practical anaesthesia, by various authors 698.  
Practical anatomy by six teachers, edited by E. P. Stibbe 116.  
Practical obstetrics, for students and practitioners, P. B. Bland 696.  
Principles and practice of obstetrics, 6th ed., J. DeLee 586.  
" " otology, F. W. Watkyn-Thomas 698.  
" " rectal surgery, W. B. Gabriel 349.  
Problem tendencies in children, W. C. Olson 696.  
Procedures in tuberculosis control for dispensary, home and sanatorium, B. Goldberg 586.  
Pulmonary tuberculosis, 4th ed., M. Fishberg 584.  
Relative value of radiotherapy in treatment of cancer of upper air passages, W. D. Harmer 350.  
Rose research on lymphadenoma, various authors 470.  
Sex and internal secretions, edited by E. Allen 466.  
Short practice of surgery, vols. 1 and 2, H. Bailey 118.  
Sputum, its examination and clinical significance, R. Clifford 356.  
Streptococci in relation to man in health and disease, A. W. Williams 586.  
Synopsis of gynaecology, H. S. Crossen 468.  
" " surgical anatomy, A. L. McGregor 349.  
Text-book of midwifery, 6th ed., R. W. Johnstone 468.  
" " pharmaceuticals, 3rd ed., A. O. Bentley 470.  
" " surgery, 2nd ed., J. Homans 584.  
Varicose veins and hæmorrhoids, V. Meisen 234.

### Editorials

American college of physicians in Montreal 312.  
Amyot, Lt.-Col. John Andrew, retirement of 544.  
Babinski 77.  
Bulletin of Ontario medical association 312.  
Canadian formulary and reference companion 661.  
" medical protective association 312.  
" researches on tubercle bacillus 427.  
Changes in the character of disease 542.  
Collip, Professor J. B., F.R.S. 545.  
Costs of medical care; report of committee 198, 543.  
Deliberate opening of bones as treatment for rheumatoid arthritis 311.  
Erythema nodosum 307.  
First-aid and the medical profession 76.  
Health committee of League of Nations 309.  
High cost of German medical journals 428.  
Hospital prospects for 1933, 76.  
Importance of early diagnosis in cancer 540.  
Lead poisoning in children 196.  
Molecular weight determinations and the centrifuge 426.  
Monro, A. S., bequest to university of British Columbia 78.  
Newer knowledge of muscle chemistry 74.  
Periodic payment plans for purchase of hospital care (group hospitalization) 658.  
Prejudice against aluminium cooking utensils 425.  
Prescription of literature 545.  
Problem of medical education 72.  
Should doctors pay for hospital privileges 200.  
True blood sugar values 659.  
Undulant fever and missed diagnoses 660.  
Utilization of physiotherapy in hospitals 427.

### Medical Societies

Academy of medicine, Toronto, 207, 562, 673.  
Calgary 94, 440, 563.  
Edmonton academy of medicine 326, 441, 563.  
Essex county 326.

International congress of military medicine and pharmacy 673.

Leeds and Grenville 674.

Lincoln county 207.

Middlesex county 209, 326.

Montreal medico-surgical 207.

Montreal physiological 209, 326, 441, 564.

Niagara district 209.

Regina and district 442, 674.

Royal college of physicians and surgeons of Canada 94.

Saskatoon and district 442.

South Waterloo 565.

Toronto physiological and biochemical and Montreal physiological; joint meeting 675.

Vancouver 676.

Winnipeg 95.

York county 210, 327.

#### Medico-legal

Moylan vs. Ottawa civic hospital 447.

Stevenson vs. Oakes 447.

X-rays in case of possible fracture 448.

#### News

British Empire 229.

Great Britain 110, 229, 343, 690.

Alberta 110, 230, 343, 459, 579, 690.

British Columbia 111, 230, 344, 460, 580, 691.

Manitoba 111, 231, 344, 460, 580, 691.

New Brunswick 111, 231, 345, 461, 581, 691.

Nova Scotia 112, 232, 345, 461, 581, 692.

Ontario 112, 232, 345, 462, 581, 692.

Quebec 113, 232, 346, 462, 582.

Saskatchewan 113, 347, 582, 692.

United States 114, 347, 582, 693.

General 116, 233, 348, 462, 582, 694.

#### Provincial Association Notes

Ontario medical association, annual meeting, Hamilton 94, 205, 325, 439, 562.

“ “ “ Bulletin; first number (E) 312.

“ “ “ Districts nos. 1, 4 and 8, 206. No. 5B, 562.

Ontario hospital 93.

Ontario neuro-psychiatric 562.

Prince Edward Island 565.

Saskatchewan 671.

#### University Notes

Cambridge 210.

McGill 210.

Toronto 210.



## AUTHORS' INDEX

- Abbott, A. C., Goodwin, A. M. and Meltzer, S.: Effect of tracheal compression on thyroid gland 481.
- Adams, R. C.: *See* Faulkner, J. A.
- Agnew, H.: Hospital prospects for 1933, 76. Should doctors pay for hospital privileges 200. Utilization of physiotherapy in hospitals 427. Periodic payment plans for purchase of hospital care (group hospitalization) (edits) 658.
- Alexander, S. L.: *See* Gilchrist, J. A.
- Allen, I.: Congenital deficiencies of ribs; case 69. Glioma of cervical cord; case 417.
- Anderson, E. M.: Production of hyperplasia of thyroid with hyperthyroidism in the albino rat 23.
- Anderson, H. B.: Gaspar Asselius, discoverer of the lacteals 666.
- Balfour, D. C.: Diseases of duodenum; treatment 2.
- Baltzan, D. M.: Digitalis administration 527.
- Barnes, L. S.: Considerations relating to pain and tenderness in acute mastoiditis 533.
- Bedford, G. V., Williams, D. H. and Newton, M. V. B.: Creeping eruption with special reference to cutaneous myiasis; case 377.
- Berry, N. E. and Nichol, J. E.: Carbuncle of kidney 141.
- Best, C. H. and McHenry, E. W.: Friedman modification of Aschheim-Zondek test for diagnosis of pregnancy 599.
- Bird, G. L.: Intraperitoneal rupture of tubal gestation followed in twelve months by a second; case 536.
- Bloodgood, J. C.: Danger of incomplete removal of apparently innocent tumours 600.
- Bourne, W.: *See* McKim, L. H.
- Brown, W. E.: Resuscitation of newborn 175.
- Burton, E. F.: *See* Hendrick, A. C.
- Cameron, A. T.: Molecular weight determinations and the centrifuge 426. True blood sugar values (edits) 659.
- Campbell, A. D.: Metal catheter as aid in differentiating tumours of pelvic origin 71.
- Campbell, D. J. M.: *See* Palmer, J. H.
- Cassels, W. H.: Mental conflict 624.
- Chung, V.: Rupture of the uterus (C) 213.
- Clifford, E. J.: Perforated duodenal ulcer in a typhoid carrier; case 194.
- Clouston, H. R.: Medical curriculum as viewed by a country general practitioner 317. Painless second stage labour 423. Undulant fever simulating influenza 535.
- Coley, B. L.: Diagnosis and treatment of bone tumours 521, 661.
- Coppock, F. H.: Hydatidiform mole in a primipara; case 69.
- Corcoran, A. C.: Student looks at medical education 662.
- Daniels, E. A.: Disturbances produced in the rectum by disease elsewhere 499.
- Darby, G. E.: Indian medicine in British Columbia 433.
- Deadman, W. J.: Findings of special clinical interest revealed at post-mortem examinations 401.
- Diamond, J. C.: Patellar bursitis treated by injection of tincture metaphen with apparent cure; 3 cases 419.
- Dick, R. A.: Health insurance 114.
- Dickie, J. K. M.: Causes of persistent discharge following radical mastoid operation 184.
- Drum, L.: First-aid and medical profession (E) 76.
- Duncan, J. H.: Ovarian fibroma; case 654.
- Durham, O. C.: Fall hay fever pollens of Canada 604.
- Eakin, W. W.: Angina pectoris in young people with rheumatic carditis 13.
- Eberts, E. M.: Small alveolar large-cell adenocarcinoma (Langhans) of thyroid gland; case 650.
- Esdale, W. R.: Transfusion of blood 57.
- Ettinger, G. H.: *See* Hall, G. E.
- Farquharson, R. F.: Diagnosis and treatment of disorders of parathyroid glands 629. *See also* McHenry, E. W.
- Faulkner, J. A. and Adams, R. C.: Obstruction of stomach by impacted mass of hair; case 66.
- Feigenbaum, J.: Abdominal Hodgkin's disease 179.
- Fitzgerald, J. G.: Health committee of League of Nations (E) 309.
- Fitzgerald, R. R.: Aseptic closure of temporary colostomy wounds 70.
- Forssell, G.: Critical analysis of radiotherapy in treatment of malignant tumours 30.
- Foucar, H. O.: Hare-lip 373.
- Foulds, G. S.: Pyelitis of pregnancy 172.
- Francis, W. W.: William Sydney Thayer (E) 200.
- Gee, E. A.: *See* Pitts, H. H.
- Gerrie, J. W.: *See* Wright, R. P.
- Gilchrist, J. A. and Alexander, S. L.: Staphylococcal infections in diabetes 386.
- Goldbloom, A.: Tuberculosis in children 286.
- Goodwin, A. M.: *See* Abbott, A. C.
- Gordon, A. H.: Atypical forms of encephalitis 8.
- Gordon, J. K.: Miss Jennie Webster of the Montreal general hospital 552.
- Gottlieb, R.: Effect of colloidal thorium on blood picture 496.
- Green, F.: Complement fixation in gonorrhoeal arthritis 289.
- Hall, G. E. and Ettinger, G. H.: Experimental study of pulmonary embolism 357.
- Harbeson, A. E.: Spontaneous expulsion of calculus from Wharton's duct; case 537.
- Harman, N. B.: Hand slit-lamp 539.
- Hatfield, W. H.: Thyroid heart (Ret) 546.
- Heagerty, J. J.: Retirement of Lt.-Col. John Andrew Amyot (E) 544.
- Heard, K. M.: Clinical experiences with avertin anaesthesia 151.
- Heaton, T. G.: Asthma and hay fever (Ret) 313.
- Henderson, V. E. and Lucas, G. H. W.: Canadian formulary and reference companion 497. *See also* Lucas, G. H. W.
- Hendrick, A. C. and Burton, E. F.: Changes in bone sarcoma after intravenous injection of colloidal solution of metallic arsenic; case 192.
- Henry, C. K. P.: Benign papillomata of gall bladder and biliary ducts; case 300.
- Howell, W. B.: Truth about Cerberus 202.
- Hunt, J. G.: Treatment of chronic nasal sinusitis 54.
- Hunter, C.: Myalgia of abdominal wall 157.
- Hyland, H. H.: *See* Turnbull, F. A.
- Irvine, W. H.: Cyst of transverse colon in a boy of two and one-half years; case 536.
- Jamieson, H. C.: Rheumatic fever with familial and hereditary characteristics; case 304. Clinical classification of Bright's disease 614. —and Scott, J. W.: Functional albuminuria 169.
- Johnston, M. M. and Kaake, M. J.: Isolation of *C. diphtheriae* and the diphtheroids from carriers, cases and normals 505.
- Jones, D. F.: Diagnosis and treatment of carcinoma of colon and rectum 471.
- Junkin, C. I.: Spinal anaesthesia in children 51.

- Kaake, M. J.: *See* Johnston, M. M.
- Kearns, P. J.: Comparative study of human ova 640.
- Kemp, W. N.: Hyperemesis gravidarum treated as a temporary adrenal cortex insufficiency 389.
- Kirk, C. M.: *See* Wright, H. P.
- Lajoie, R. J.: Average dynamic blood pressure, new criterion of cardiac efficiency 276.
- Leggett, L. H.: Osteitis fibrosa with multiple benign giant-cell tumours 636.
- Lewis, F. I.: Pneumo-peritoneum following laparotomy 18.
- Long, J. E.: Diabetes insipidus 508.
- Lucas, G. H. W. and Henderson, V. E.: Suggestion for administration of iron 298. *See also* Henderson, V. E.
- McCausland, A.: Functional neuroses 293.
- MacDermot, H. E.: American college of physicians in Montreal 312. Prejudice against aluminium cooking utensils 425. High cost of German medical journals (edits) 428. Earliest clinical applications of x-rays 321.
- McEachern, D.: Newer knowledge of muscle chemistry (E) 74.
- McHenry, E. W., Mills, E. S. and Farquharson, R. F.: Treatment of pernicious anaemia by intramuscular administration of liver extract 123. *See also* Best, C. H.
- McKechnie, R. E.: Sympathectomy for tic douloureux 41.
- McKenzie, K. G.: *See* Turnbull, F. A.
- McKim, L. H. and Bourne, W.: Use of avertin in multiple dressings; effects on the liver 149.
- Macklin, M. T.: Heredity as aid to modern therapy 394.
- McLaughlin, Jr. C. W.: Tumours of extra-hepatic bile ducts exclusive of ampulla of Vater 255.
- MacLeod, J. W.: *See* Meakins, J. C.
- MacMillan, J. A.: Transplantation of lachrymal sac in chronic suppurative dacryocystitis 146.
- MacNeil, F. A.: Congenital atresia of oesophagus; case 422.
- Macphail, A.: Source of modern medicine 239.
- Macpherson, L.: Bilateral spontaneous pneumothorax in an ambulatory patient; case 305.
- McQueen, J. D.: Occipito-posterior position 42.
- Mann, J.: Case reports illustrating observations in treatment of hyperemesis gravidarum 48.
- Marin, A.: Sycosis and x-rays 621.
- Meakins, J. C. and MacLeod, J. W.: Carcinoma of the bronchi 268.
- Melanson, H. P.: Rat-bite fever; case 656.
- Meltzer, S.: *See* Abbott, A. C.
- Miller, J.: Teaching of preliminary and of basal medical sciences 548.
- Mills, E. S.: Treatment of anaemia 410. *See also* McHenry, E. W.
- Mitchell, D. S. and Struthers, R. R.: Congenital hypertrophy of thyroid gland; case 27.
- Mitchell, R.: Dr. John Rae, Arctic explorer, and his search for Franklin 85.
- Mullen, L. M.: Re-established pneumothorax; case 195.
- Neff, W. B.: Present status of anæsthetic ether regarding common impurities 627.
- Newton, M. V. B.: *See* Bedford, G. V.
- Nichol, J. E.: *See* Berry, N. E.
- Nicholls, A. G.: Problem of medical education 72. Babinski 77. A. S. Monro bequest to the University of British Columbia 78. Lead poisoning in children 196. Late Dr. Frank Billings 201. *Revue française de chirurgie réparatrice, plastique et esthétique* 202. Erythema nodosum 307. Canadian medical protective association 312. Bulletin of Ontario medical association 312. Recent researches on the tubercle bacillus 427. Importance of early diagnosis in cancer 540. Changes in character of diseases 542. Prof. J. B. Collip, F.R.S. 545. Prescription of literature 545. Undulant fever and missed diagnoses 660. Canadian formulary and reference companion (edits) 661.
- Nutter, J. A.: Pott's disease 648. Deliberate opening of bones as treatment for rheumatoid arthritis (E) 310.
- Ortenberg, S.: Parathyroid dysfunction; case treated with parathormone and irradiated ergosterol 490.
- Palmer, J. H. and Campbell, D. J. M.: Relapsing fever in North America with report of outbreak in British Columbia 643.
- Patterson, W. J.: Arachnodactyly; case 652.
- Penfield, W.: Operative treatment of spontaneous intracerebral hæmorrhage 369.
- Pfahler, G. E.: Irradiation therapy of cancer of breast 602.
- Pitts, H. H. and Gee, E. A.: Pseudomyxoma peritonei originating in a mucocele of appendix 266.
- Primrose, A.: Medical education 78.
- Prowd, C. W.: Radiation treatment of intra-oral cancer 182.
- Rabinowitch, I. M.: Observations on significance of cholesterol content of blood plasma in diabetes mellitus 162. Alcohol 587.
- Richards, G. E.: Treatment of external cancer by radiotherapy 246.
- Ritchie, W. L.: Ulcers of the oesophagus 392.
- Routley, T. C.: Cost of medical care (E) 543.
- Rudolf, B. D.: Prognosis in cardiac disorders 35.
- Russel, C. K.: Spontaneous subarachnoid hæmorrhage 133.
- Scott, J. W.: Functional dyspepsia 518. *See also* Jamieson, H. C.
- Seng, M. I.: Significance of backache in genito-urinary disease 283.
- Simmonds, E. G.: Unusual clues to diagnosis of typhoid fever 382.
- Simpson, B. T.: Biopsy 62.
- Skinner, H. A.: Education and medical learning 429.
- Smith, E.: Gastrointestinal symptoms in hydronephrosis and renal calculi 281.
- Smith, W. H.: Report of committee on cost of medical care (E) 198.
- Starr, F. N. G.: Cancer of stomach 188.
- Stevens, W. J.: Toxæmias of pregnancy 513.
- Stewart, C. C.: Intratracheal administration of nitrous oxide 295.
- Stewart, R. C.: Rat-bite fever in Canada 608.
- Stout, M. L.: Staphylococcus aureus pyæmia with osteomyelitis treated with gentian violet; case 190.
- Struthers, R. R.: *See* Mitchell, D. S.
- Tovell, R. M.: Spinal anaesthesia 404.
- Turnbull, F. A., Hyland, H. H. and McKenzie, K. G.: Staphylococcus infection producing an inflammatory mass simulating spinal cord tumour; case 415.
- Viner, N.: Dementia præcox treated by intraspinal injections of horse serum; case 420.
- Whiteside, W. C.: Uterus bicornis with closed accessory horn; case 302.
- Williams, D. H.: *See* Bedford, G. V.
- Wright, C. S.: Injuries of semilunar cartilage; effective treatment of recent injuries and of some recurrent types 618.
- Wright, H. P. and Kirk, C. M.: Solanum tuberosum 398.
- Wright, R. P. and Gerrie, J. W.: Pin in maxillary antrum; case 65.



